THE SINGING MACHINE®

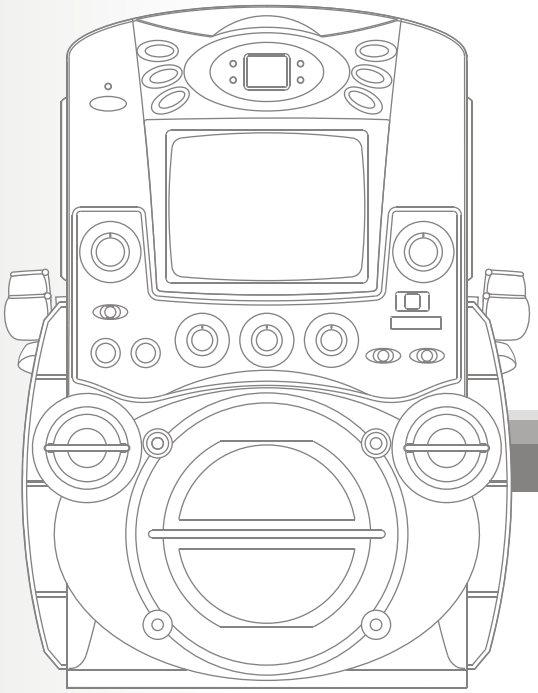
Instruction Manual

THE LEADER IN HOME KARAOKE™

STVG-513

- **Compact Disc + Graphics with Built-In TV Karaoke Center**

Please read before using this unit.



The Singing Machine® is a registered trademark of The Singing Machine Co., Inc.

WARNINGS

WARNING: TO REDUCE THE RISK OF FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE.

CAUTION

RISK OF ELECTRIC SHOCK
DO NOT OPEN

CAUTION: TO PREVENT THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER OR BACK. NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED PERSONNEL.

This symbol is intended to alert you to the presence of uninsulated dangerous voltage within the product's enclosure that might be of sufficient magnitude to constitute a risk of electric shock. Do not open the product's case.

This symbol is intended to inform you that important operating and maintenance instructions are included in the literature accompanying this product.

CAUTION

TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT, FULLY INSERT.

DRIPPING WARNING

The product shall not be exposed to dripping or splashing and that no objects filled with liquids, such as vases, shall be placed on the product.

VENTILATION WARNING

The normal ventilation of the product shall not be impeded for intended use.

This CD player is made and tested to meet exacting safety standards. It meets FCC requirements and complies with safety performance standards of the U.S. Department of Health and Human Services.

Warnings:

- This CD player employs a laser light beam. Only a qualified service person should remove the cover or attempt to service this device, due to possible eye injury.
- The use of controls, adjustments, or procedures other than those specified herein might result in hazardous radiation exposure.
- The apparatus shall be used in an open area.

CAUTION

This compact disc player is classified as a CLASS 1 LASER product.
The CLASS 1 LASER PRODUCT label is located on the rear panel.

CAUTION!

Invisible laser radiation when open and inter locks defeated. Avoid exposure to beam.

IMPORTANT SAFETY INSTRUCTIONS

1. **Read Instructions** - All the safety and operating instructions should be read before the product is operated.

2. **Retain Instructions** - The safety and operating instructions should be retained for future reference.

3. **Heed Warnings** - All warnings on the product and in the operating instructions should be adhered to.

4. **Follow Instructions** - All operating and use instructions should be followed.

5. **Cleaning** - Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning the exterior only. Do NOT attempt to clean the inside.

6. **Attachments** - Do not use attachments not recommended by the product manufacturer as they may cause hazards.

7. **Water and Moisture** - Do not use this product near water - for example, near a bath tub, wash bowl, kitchen sink, or laundry tub; in a wet basement, or near a swimming pool, and the like.

8. **Accessories** - Do not place this product on an unstable cart, stand tripod, bracket, or table. The product may fall, causing serious injury to a child or adult, and serious damage to the product. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer, or sold with the product. Any mounting of the product should follow the manufacturer's instructions, and should use a mounting accessory recommended by the manufacturer.

9. A product and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.

10. **Ventilation** - Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the product and to protect it from overheating, and these openings must not be blocked or covered. The openings should never be blocked by placing the product on a bed, sofa, rug, or other similar surface. This product should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided.

11. **Power Sources** - This product should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your product dealer or local power company. For products intended to operate from battery power, or other sources, refer to the operating instruction.

12. **Grounding or Polarization** - This product may be equipped with a polarized alternating current line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.

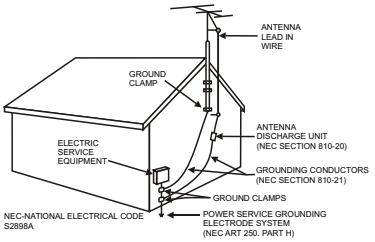
    Alternate Warnings - This product may be equipped with a three-wire grounding-type plug, a plug having a third (grounding) pin. This plug will only fit into a grounding-type power outlet. This is a safety feature. If you are unable to insert the plug into the outlet, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the grounding-type plug.

13. **Power-Cord Protection** - Power supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the product.

14. **Protective Attachment Plug** - The product is equipped with an attachment plug having overload protection. This is a safety feature. See Instruction Manual for replacement or resetting of protective device. If replacement of the plug is required, be sure the service technician has used a replacement plug specified by the manufacturer that has the same overload protection as the original plug.

IMPORTANT SAFETY INSTRUCTIONS

15. **Outdoor Antenna Grounding** - If an outside antenna is connected to the receiver, be sure the antenna system is grounded so as to provide some protection against voltage surges and built-up static charges. Article 810 of the National Electrical Code, ANSI/NFPA70, provides information with regard to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna-discharge unit, size of grounding conductors, location of antenna-discharge unit, connection to grounding electrodes, and requirements for the grounding electrode. See figure:


ANTENNA LEAD IN WIRE
GROUND CLAMP
ANTENNA DISCHARGE UNIT (NEC SECTION 810-20)
ELECTRIC SERVICE EQUIPMENT
GROUNDING CONDUCTORS (NEC SECTION 810-21)
GROUND CLAMPS
NEC-NATIONAL ELECTRICAL CODE S2898A
POWER SERVICE GROUNDING ELECTRODE SYSTEM (NEC ART 250. PART H)

16. **Lightning** - For added protection for this product during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the product due to lightning and power-line surges.

17. **Power Lines** - An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.

18. **Overloading** - Do not overload wall outlets, extension cords, or integral convenience receptacles as this can result in a risk of fire or electric shock.

19. **Object and Liquid Entry** - Never push objects of any kind into this product through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spill liquid of any kind on the product.

20. **Servicing** - Do not attempt to service this product yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

21. **Damage Requiring Service** - Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions:
    a) When the power-supply cord or plug is damaged,
    b) If liquid has been spilled, or objects have fallen into the product,
    c) If the product has been exposed to rain or water,
    d) If the product does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to its normal operation.
    e) If the product has been dropped or damaged in any way, and
    f) When the product exhibits a distinct change in performance - this indicates a need for service.

22. **Replacement Parts** - When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards.

23. **Safety Check** - Upon completion of any service or repairs to this product, ask the service technician to perform safety checks to determine that the product is in proper operating condition.

24. **Wall or Ceiling Mounting** - The product should be mounted to a wall or ceiling only as recommended by the manufacturer.

25. **Heat** - The product should be situated away from heat sources such as radiators, heat registers, stoves, or other products (including amplifiers) that produce heat.

INTRODUCTION

Your Compact Disc + Graphics with Built-In TV Karaoke Center will provide you with many years of fun and entertainment. It can let you be the “star” as you sing along with your favorite recordings and hear your voice with the music through the system’s speaker.

This Karaoke Center is easy to use, yet full of features with a compact design. After just a few simple instructions, you will become an expert. Before you use your unit, please read this manual thoroughly to familiarize yourself with all the features available and the sections of the manual that describe their operation. Next, go to the section for the specific operation you wish to perform.

For your easy reference, listed here are some of the main features of this Karaoke Center:

Lyrics on TV screen - displays the lyrics with the tempo of music when playing CD+G discs.

Auto Voice Control - lets you replace the original singer's voice with your own voice when any prerecorded, multiplex karaoke disc or tape is played. To activate, just rotate Mic Volume to a comfortable listening level, and Auto Voice Control for the best balance between playback and microphone levels.

Balance Control - lets you adjust the balance between the prerecorded original singer's voice and the music if you use a multiplex karaoke disc.

Echo Control - lets you add an echo to enrich your voice for a concert hall effect.

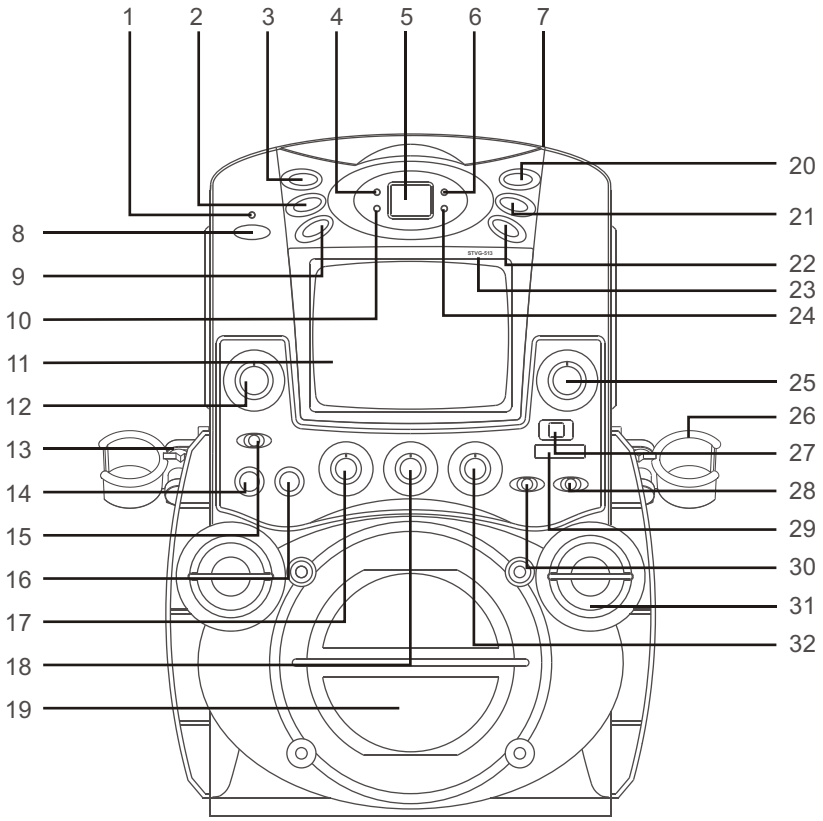
Master Volume Control - lets you turn the volume control clockwise or counter-clockwise until desired volume level is obtained.

Multiple Karaoke music center - it plays audio Compact Discs, CD+Graphics discs.

Built-In Speaker - lets you share the music with your family or friends.

Auxiliary Output Jacks - lets you connect another audio output component, such as an equalizer/booster or a PA system.

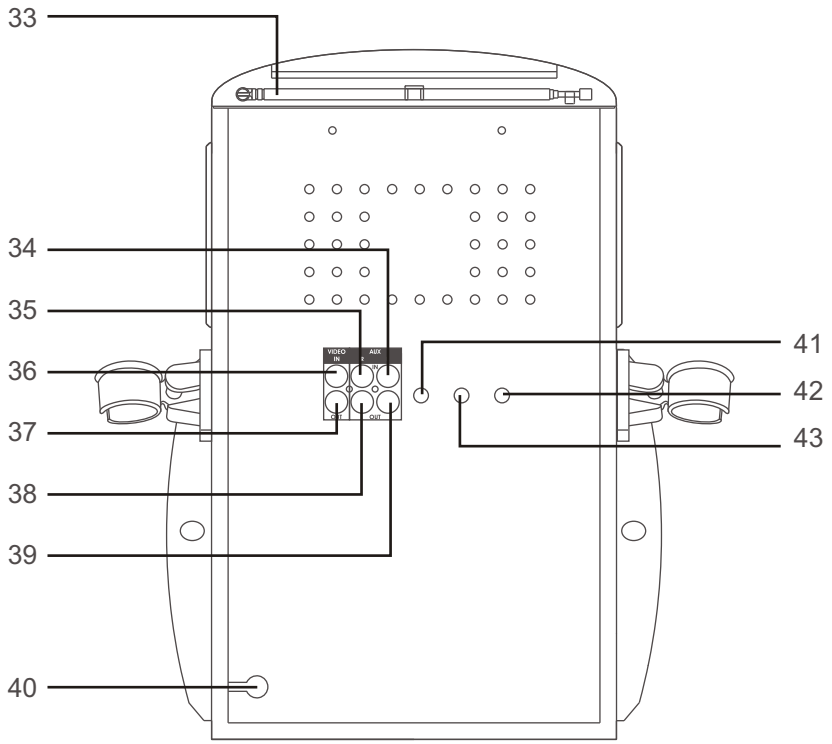
CONTROL LOCATIONS



FRONT VIEW

1. ON/OFF LED
2. REPEAT Button
3. PROGRAM Button
4. REPEAT Indicator
5. LED Display
6. PLAY/PAUSE Indicator
7. CD Door Open Lid
8. ON/OFF Button
9. SKIP Button ⏮
10. PROGRAM Indicator
11. Monitor
12. MIC Volume Control
13. Mic Holder
14. MIC 1 Jack
15. FUNCTION Selector
16. MIC 2 Jack
17. ECHO Control
18. BALANCE Control
19. Loudspeaker
20. PLAY/PAUSE Button
21. STOP Button
22. SKIP Button ⏭
23. Model Number
24. CDG LED
25. Master Volume Control
26. MIC Holder
27 Dial Pointer
28. BAND Selector
29. TUNING Knob
30. MONITOR ON/OFF
31. Tweeter
32. AUTO VOICE CONTROL

CONTROL LOCATIONS



REAR VIEW

33. Rod Antenna
34. AUX INPUT Jack (L)
35. AUX INPUT Jack (R)
36. VIDEO IN Jack
37. VIDEO OUT Jack
38. AUX OUTPUT Jack (R)
39. AUX OUTPUT Jack (L)
40. AC POWER Cord
41. BRIGHTNESS Control
42. VERTICAL HOLD Control
43. CONTRAST Control

MAKING THE CONNECTIONS

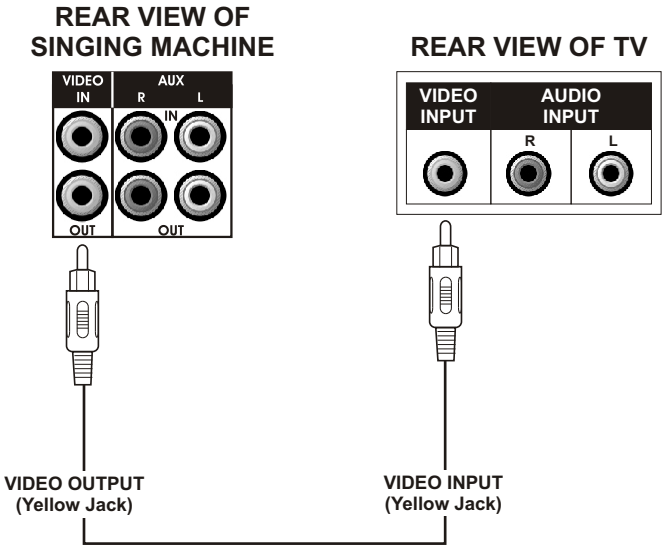
CONNECTING POWER
You can power the system from a standard AC outlet by using the supplied power cord.

CAUTION: The supplied AC power cord has a polarized plug that fits into the wall outlet only one way. If the plug does not fit properly, turn it over and try again. Do not force it.

CONNECTING TO YOUR TV
The Singing Machine provides a patch cord to give you the option of connecting your unit to an external audio/sound system and video device. The patch cord has three RCA jacks at each end. White and Red are for left and right audio connections and the yellow is for connecting the video.

Make sure that you have a CDG disc in the Singing Machine and playing when you are making this connection. You will know you have the proper settings on your TV or VCR as soon as you see the Singing Machine logo or lyrics on the screen!

VIDEO CONNECTION
Please follow the steps below to display CDG lyrics on the TV screen:
(1) Locate the multicolored patch cords.
(2) Connect video cable (yellow) to the Video Out of the back of the Singing Machine.
(3) Connect the other end of the video cable (yellow) to the Video Input on your TV or VCR.



MAKING THE CONNECTIONS

If your television does not have the required Video Input, you will need an RF Modulator (Radio Frequency Modulator), which connects through your TV Antenna or cable line and serves as Video Input.

An RF Modulator can be purchased at almost any consumer electronics retailer. If you are connecting the video from the Singing Machine to either a television or a VCR video input jack, you must specify the source the TV or VCR is to display. Your TV or VCR user guide can tell you how to display the video signal from the 'Video In' jack.

If you don't have the manual for your TV or VCR we suggest calling the TV or VCR manufacturer's customer service department. Only the manufacturer will be able to tell you very quickly how to configure your TV or VCR to display the video signal coming from the 'Video Input' jack.

* Note: Some projection TV sets do not display the standard blue background used on most CDGs properly. If the background color is inconsistent or flashing, please try connecting your Singing Machine to a standard tube television.

COMMON WAYS TO CONFIGURE YOUR TV OR VCR

Your Singing Machine is designed to connect to your TV the same way you would connect a video camera, VCR or video game. The Singing Machine is constantly sending the video and audio signals to the 'Video Out' and 'AUX OUT' jacks whenever you play a CDG. So, load a CDG into your Singing Machine before you start making these connections. You will see lyrics on the TV screen as soon as you get the setup completed correctly.

We refer to TV/VCR because manufacturers use very similar ways to connect TVs and VCRs and you can connect your Singing Machine to a TV, VCR or satellite system. The setup of your TV/VCR is the most difficult part of making the connection for displaying your Singing Machine lyrics. In most homes, the TV has either a cable connected or antennae in use. Once you connect your Singing Machine to the TV/VCR, you must 'tell' your TV/VCR to display the input from the Singing Machine instead of the usual input from the cable or antennae.

Check your TV/VCR user manual for the easiest way to setup your particular entertainment system. If you don't have your manual you can always call your TV/VCR manufacturer for that information or try hitting their website for online assistance. We've listed below the most common ways of setting up a TV/VCR:

(1) In the setup menu for configuring the TV/VCR there may be an option on 'Input Selection' where you may choose between 'Cable/Ant.', 'Video 1', or 'Video 2' etc. as the input source.

(2) Try looking for a 'Video' channel between the highest channel and the lowest channel on your TV or VCR. (i.e. Between 99 and 2 may be 'VIDEO' or 'INPUT' or 'GAME')

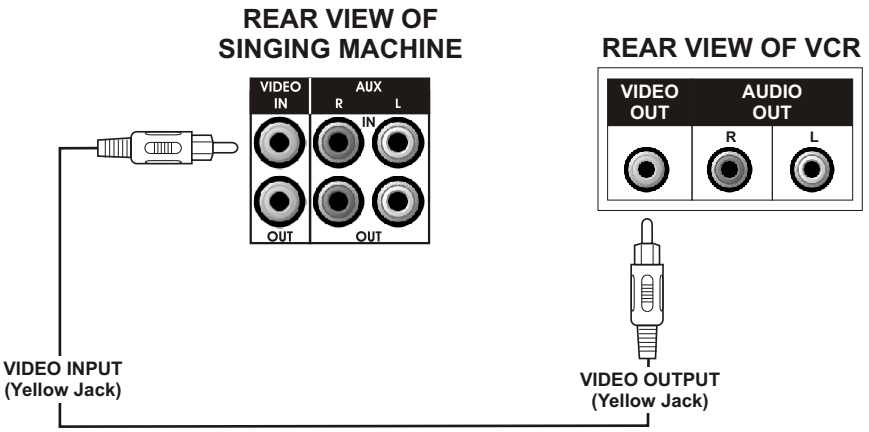
(3) Look for a button on the remote control for the TV/VCR you are connecting to that says 'VIDEO', 'VIDEO 1', 'Game', 'AUX', 'EXT', 'LINE1', 'LINE-IN' or occasionally the 'VCR' button will display the Video input source.

MAKING THE CONNECTIONS

CONNECTING A VIDEO COMPONENT FOR INPUT

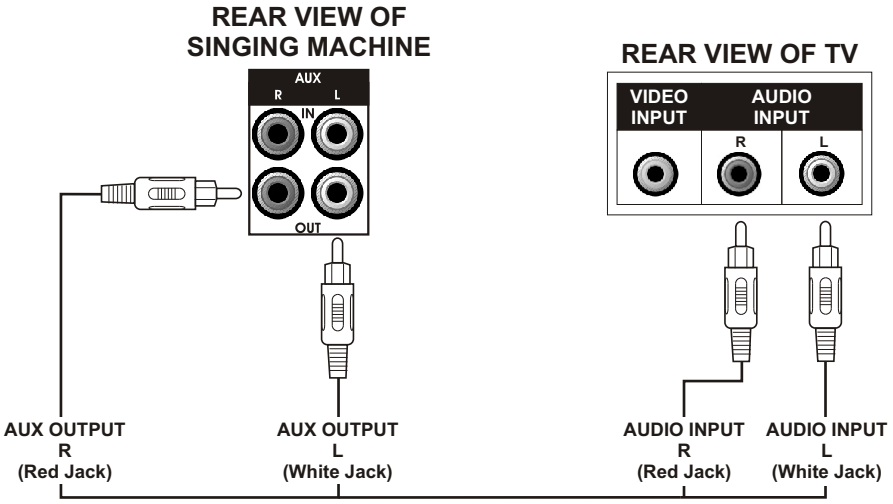
Please follow the steps below to display CDG lyrics on the Singing Machine's monitor from another video source:

(1) Locate the multicolored patch cords.
(2) Connect video cable (yellow) to the Video In of the back of the Singing Machine.
(3) Connect the other end of the Video Cable (yellow) to the Video Output on another video source such as a VCR.
(4) Set the FUNCTION SELECT switch to AUX and the MONITOR ON/OFF switch to ON.
(5) Adjust the BRIGHTNESS, CONTRAST and VERTICAL HOLD Controls at the back of the Singing Machine to have the best picture quality.



AUDIO CONNECTION

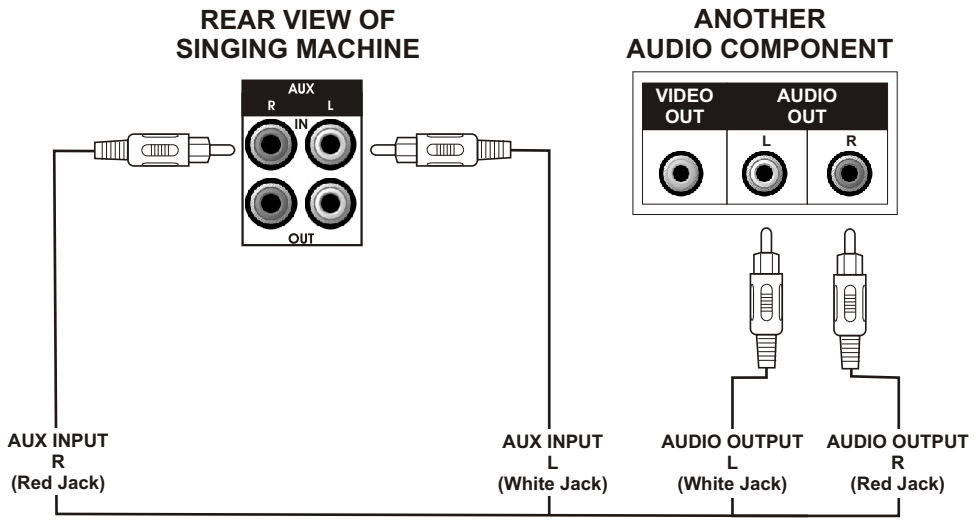
Connect the unit to your TV or home stereo system using the White and Red connections on the supplied patch cord. Plug the white end of the patch cord into the white AUX OUT jack on the unit. Plug the red end of the patch cord into the red AUX OUT jack on unit. Now connect the other end of the cable's white (left channel) and red (right channel) plugs to your TV or home stereo system's 'AUDIO IN' or 'AUX IN' jacks.



MAKING THE CONNECTIONS

CONNECTING AN AUDIO COMPONENT FOR INPUT

To connect another audio source (such as a Tuner, an AV Receiver or a VCR) so you can sing along with its music, simply connect the Audio Output jacks (Red & White RCA jacks) to the Singing Machine's AUX IN L & R jacks.



CD OR CD+G OPERATION

* **Warning - Tapping or dropping the microphone while it is on can permanently damage your microphone. Resist the urge to swing the microphone around by the cord!**

PREPARATION

- This unit is designed to play CD's bearing the identification logo " COMPACT DISC DIGITAL AUDIO ". If CD's do not conform to the CD standard, they may not play properly.
- Fingerprints and dust should be carefully wiped off with a soft cloth. Wipe in a straight motion from the center of the disc to the outside edge.
- Never use chemicals, such as record cleaning sprays, antistatic sprays or fluids, benzene or thinner to clean compact discs. These chemicals will permanently damage the plastic surface of the disc.
- Always place the compact disc on the disc tray with the label facing upward. Compact discs can be played on only one side.
- To remove a disc from its storage case, press down on the center of the case and lift the disc out, holding it carefully by the edges.
- Discs should be returned to their cases after use to protect them from dust and scratches.
- To prevent warping the disc, do not expose it to direct sunlight, high humidity or high temperatures for extended periods of time.
- Do not apply paper or write anything on either side of the disc. The inks used in some felt-tips pens may damage the surfaces of the disc.

PLAYING CD OR CD+G DISC

Reminders:

- Adjust MASTER VOLUME control on your unit, TV or audio system to a comfortable level.
- Adjust MIC/ECHO/BALANCE controls as needed to achieve the desired mix of music and vocals through your TV or sound system.
- Do not press the disc cover of the CD compartment while it's playing.
- Never place anything except a compact disc on the disc tray. Foreign objects can damage the unit.
- Do not apply excessive force to disc cover.
- Only place one disc on the disc tray at a time.

TURNING POWER ON/OFF

- To turn on the Karaoke center, press the ON/OFF button, the ON/OFF LED will light up.
- To turn off the system, press the ON/OFF button again, the ON/OFF LED will turn off.

FUNCTION SELECT

Set the FUNCTION SELECT switch to CD+G.

LOADING A DISC

- Lift up the CD door to open the CD/CDG compartment. Place a disc in the compartment with the printing side facing upward and the shiny side facing down.
- Gently close the CD door to the CD/CDG compartment. After a few seconds, the LED will display the total number of tracks. (If no disc is loaded, it will display "– –".)

(Refer to the Trouble Shooting Guide on page E15 if a disc is loaded but the total tracks do not appear.)

CD OR CD+G OPERATION

PLAY/PAUSE MODE
- To start playing, press the PLAY/PAUSE button. The first track [1] and the PLAY/PAUSE LED will be lit.
- To temporarily stop playing, press the PLAY/PAUSE button. The PLAY/PAUSE LED Indicator will flash.
- To resume play, press this button again.

MONITOR ON/OFF
- Set MONITOR ON/OFF switch to ON if you want to display a CDG lyrics on the Singing Machine's monitor.
- Adjust the BRIGHTNESS, CONTRAST and VERTICAL HOLD Controls at the back of the Singing Machine to have the best picture quality.

STOP MODE
If the STOP button is pressed in the course of playing, the disc will cease to play. (The total number of tracks will be shown on the LED window.)

SKIP (For both CD and CDG discs)
- During STOP mode, you can skip up or down to your desired track number by pressing a SKIP button(⏮ - SKIP - ⏭).
- To resume playing the selected song, press PLAY/PAUSE button.

SEARCH (For audio CD disc only)
When playing any audio CD, press and hold the SKIP button (⏮ -SKIP- ⏭). The CD will search at high speed in the forward or backward direction. Normal play will continue when you release the button.

REPEAT
- To repeat the track currently playing, press the REPEAT button once. The REPEAT LED will start to flash.
- To repeat all tracks, press the REPEAT button twice. The REPEAT LED will light up and stay lit.
- To clear the REPEAT function, press the REPEAT button again. The REPEAT LED will turn off.

PROGRAM
- Use this button to program and play back songs in a preselected order.
  Step 1: Programming should be done in the stop mode only. Press the PROGRAM key until the PROGRAM LED flashes, the track will read [0].
  Step 2: Press the double arrow keys (⏮ -SKIP- ⏭) to select a desired track.
  Step 3: Press PROGRAM key to confirm entry. You can repeat the same steps up to a maximum of 20 tracks.
  Step 4: Press PLAY to activate PROGRAM.
- Press the STOP button to clear all the programmed entries.

RADIO OPERATION

AM/FM RADIO

1. Turn on POWER.
2. Switch FUNCTION (RADIO/CDG/AUX) Selector to RADIO position.
3. Switch BAND SELECTOR to either AM or FM radio position.
4. For FM reception, use directional antenna on back of unit for best signal. (AM antenna is built-in).
5. Turn RADIO TUNER to select desired station as indicated on dial.
6. Adjust MASTER VOLUME to your pleasure.
7. To turn the radio off, set FUNCTION Selector to CDG or AUX position.

MICROPHONES/ECHO

1. When either or both microphones are plugged into the mic jacks, their output is mixed with the playback from RADIO/CD/CDG disc.
2. Adjust MIC VOLUME, for best balance between playback and microphone levels.
3. Adjust ECHO to add depth and richness to vocals as desired.

SING-ALONG RADIO

1. Follow operating instructions for AM/FM RADIO.
2. Follow operating instructions for MICROPHONES/ECHO.
3. Adjust MASTER VOLUME control. Your voice will be combined with the radio station output and will be heard through the loudspeaker.

CARE AND MAINTENANCE

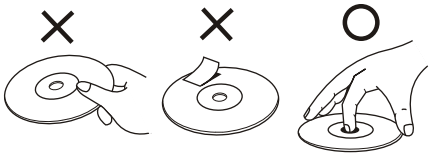
POWER SWITCH
After using the unit, turn off the power by pressing the ON/OFF button.

CLEANING THE UNIT
To clean the exterior of the unit, simply wipe with a soft clean cloth moistened with plain lukewarm water.

CLEANING THE CD LASER LENS
For the Best Results: Use a CD-lens cleaning disc according to the cleaning disc manufacturer instructions.
If a lens cleaning disc is not available, use a clean, soft, dry cotton cloth to gently wipe the small, glass, fish-eye laser lens located in the CD players.

To prevent fire or shock hazard, disconnect your stereo system from the AC power plug when cleaning.

COMPACT DISC
Handling Disc
Although the music tracks in the disc are covered with a protective layer, it is still advisable to treat the disc carefully. Ensure that you always pick up discs by the edge, and put them back in their holders immediately after use.



CLEANING DISC
Cleaning will not normally be necessary. However, should fingerprints, dust or dirt appear, you can wipe them off with a soft, lint-free cloth. Wipe the disc in a straight line from center to edge. You can moisten the disc first with ordinary tap water if necessary.

NOTE: Do not use detergent or abrasive cleaning agents, for they can damage the disc.

CD PLAYER
The player mechanism is fitted with self-lubricating bearings and must not be oiled or greased.

TROUBLE SHOOTING GUIDE

If you have followed the instructions and are having difficulty operating the unit, locate the PROBLEM in the left column below. Check the corresponding POSSIBLE CAUSE column to locate and remedy the problem.

PROBLEM	POSSIBLE CAUSE	SOLUTION
No power when the unit is on.	No power plug connection at the AC outlet.	Insert the power plug into the AC outlet.
No power when plugged in.	The AC outlet may not have power.	Check the outlet with a working lamp or other electrical appliance.
No sound.	Volume control is set to minimum.	Turn up the volume.
	Volume control on TV set/PA system is set to minimum.	Turn up the volume at TV/PA system.
	TV set/PA system power is OFF.	Turn on the power at TV/PA system.
	AUX OUT jacks not connected.	Follow directions on page E9 for 'Audio Connection'.
	The wrong function is selected.	Select the correct function.
CD PLAYER cannot work normally or '--', 'E', or '00' are displayed.	Disc is inserted upside down.	Insert disc correctly.
	Disc is dirty.	Wipe clean with soft cloth.
	Disc is scratched.	Use a new disc.
	Disc is warped.	Use a new disc.
	A nonstandard disc is inserted.	Only use discs bearing standard logo as described on page E11.
	Moisture has formed inside the CD deck.	Wait about 20 to 30 minutes to let it dry out.
	Singing Machine needs to be reset.	Disconnect the machine from power source for 30 seconds.
No sound - If audio is going through home stereo.	Source Selection on your stereo is not set properly.	Select AUX IN as the source for your home stereo.
	Improper Connection to stereo system or PA.	Follow direction on page E9 for connecting to a home stereo system.

TROUBLE SHOOTING GUIDE

PROBLEM	POSSIBLE CAUSE	SOLUTION
No sound - If audio is going through TV or VCR.	Source Selection on TV or VCR is not correct.	Follow directions on page E7 for 'Video Connection'.
No song lyrics appear on screen.	Video cable is not connected properly to the TV.	Connect the video cable to the Singing Machine's VIDEO OUT and to the TV VIDEO IN.
	Source selector on TV is not set to VIDEO.	Using your TV Remote to select VIDEO input.
	TV does not have video line input.	Connect from VIDEO OUT of the system to the VIDEO IN of your VCR or Connect to an RF Modulator and then to the TV cable input. Refer to "Making the Connections" on page E7. Check the disc to be sure it is a CDG. (See page E18 for details)
	A CDG is loaded but the CDG indicator is not lit.	Check disc to be sure it is clean. (See page E14 for cleaning instructions.)
Picture is jumping up.	VERTICAL HOLD Control is not set correctly.	Adjust the VERTICAL HOLD Control.

SPECIFICATIONS

AUDIO SECTION: OUTPUT POWER (MAXIMUM) OUTPUT IMPEDANCE	 2 WATTS (RMS) 8 OHMS
CD PLAYER SECTION: FREQUENCY RESPONSE SIGNAL - TO - NOISE RATIO WOW AND FLUTTER D - A CONVERSION NUMBER OF PROGRAMS SAMPLING SYSTEM	 20 Hz - 20 kHz (+/- 3dB) 65 dB IMMEASURABLE 1-BIT DAC 20 STEPS RANDOM ACCESS PROGRAMMING 8 TIMES OVER SAMPLING
MONITOR SECTION	5.5” BLACK AND WHITE TV MONITOR NTSC SYSTEM 220 LINE RESOLUTION
RADIO SECTION AM FREQUENCY RANGE FM FREQUENCY RANGE	 530-1710 kHz 88-108 MHz
MICROPHONE	-74 dB 600 OHMS IMPEDANCE WITH ∅ 6.3mm DYNAMIC MICROPHONE
POWER SECTION	AC 110V-120V~60Hz
DIMENSIONS (H x W x D)	14.8 x 10.6 x 9.8 Inches / 37.7 x 27.0 x 25.0 cm
WEIGHT	11.5 lbs / 5.2 kgs
ACCESSORIES	1. PRE-RECORDED KARAOKE CD+G DISC 2. AV CABLE 3. DYNAMIC MICROPHONE

Specifications are typical, individual units might vary. They are subject to continuous improvement without notice and without incurring any obligation.

THE SINGING MACHINE KARAOKE GLOSSARY OF TERMS

In addition to all of the terminology associated with consumer electronics products, a few additional terms are used almost exclusively in karaoke. These terms are meant to familiarize you with the world of Karaoke. The features listed below ***may not*** necessarily pertain to the particular model Singing Machine that you have. The following are some brief explanations of karaoke terms:

Echo:
Echo adds depth and resonance to a singer's voice, without affecting the music. This echo is produced by creating minor controlled feedback in the singer's voice.

Multiplex:
Our multiplex recordings contain 2 copies of the same song. One version is a stereo recording of the song without the lead singer. The second version is recorded with the music and background vocals on the left channel and the lead singer recorded on the right channel. This 'split track' recording allows you to control the volume of the lead singer by adjusting the balance control. You can sing a duet with the lead singer or use the lead singer as a guide as you learn the song, gradually fading them out with the balance control until you are able to sing the song on your own.

Auto Voice Control (AVC):
When the AVC function is activated, the vocals on a multiplex recording are eliminated as soon as the singer begins singing into the microphone. When the singer stops singing, the vocals on the multiplex recording are automatically re-activated. This useful function is used primarily during practice sessions while a singer is learning a song. Please note that the AVC function only works with multiplex recordings and not with standard audio recordings.

Pitch Control:
This function controls the speed at which a cassette tape plays back. By increasing the speed of the tape, the music sounds higher (sharp). By slowing the tape speed, the music sounds lower (flat).

Key Controller:
Key Controller changes the key of the CD/CDG music (+ or - steps) to adjust to the singer's voice.

CDG:
This is an acronym for Compact Disc plus Graphics. You will also see variations CD+G, and CD+Graphics. This is a regular audio CD with information stored on a data track simultaneous to music. In laymen's terms, CDG has a video output for simple graphics (not full motion video). In the case of karaoke, the graphics function is used to store song lyrics, and display the lyrics in synch with music. In most cases, CDG software displays lyrics which change color as they are to be sung. A regular television is all that is required to display CDG lyrics.

NOTE - CDG is a particular type of compact disc encoding system that is different from VCD or DVD. Your Singing Machine can decode standard audio compact discs and CDG discs. It will not read VCD or DVD encoded discs.

Standard audio discs and cassette tapes will not display lyrics on your TV. Audio CDs do not contain the software necessary to display lyrics.

The Singing Machine Company, Inc.

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